Reduction Valve

Application

The **PSG Reduction Valve** is used for continuous extractive gas analysis. It serves for reduction of pressure in the sample gas outlet of gas sampling probes series **PSG Plus Probe** while back purging. Typical applications are all processes with high dust concentrations where gas sampling for process monitoring or process optimization occurs.

Technology

The **PSG Reduction Valve** is based on a stainless steel fitting for tube connection with ¼“-RT male thread, suitable for the sample gas outlet of the gas sampling probe series **PSG Plus Probe**. In the fitting a spring-loaded corrosion resistant stainless steel shut off body is integrated. The used spring is also made of corrosion resistant stainless steel.

Functions

In case of back purging of the **PSG Plus Probe**, the **PSG Reduction Valve** reduces the fed pressure impulse in the sample gas outlet. This way a damage of downstream devices like sample gas cooler, filter, flow meter and especially analyzer is prevented. The valve is designed so that no complete shut off is happening to enable a pressure relief in the gas sampling probe at any time and to remove possibly depositing particles during back purge process. Additionally, the heated sample gas line is connected without cold spots via temperature resistant **PSG Reduction Valve**. The **PSG Reduction Valve** is not suited to be used in combination with **PSG Pre-Filter**.

- ✔ Reliable reduction of pressure peaks in sample gas outlet of PSG Plus while back purging
- ✔ Safe protection of analyzer and gas conditioning components against damage
- ✔ Increase of back purge efficiency
- ✔ Self-cleaning effect
- ✔ Corrosion resistant
- ✔ Temperature resistant
- ✔ Compact design
- ✔ Dual function with connection for heated sample line
- ✔ Dismountable for simple cleaning
- ✔ Quick and simple mounting

State 07 / 2022 | Subject to change

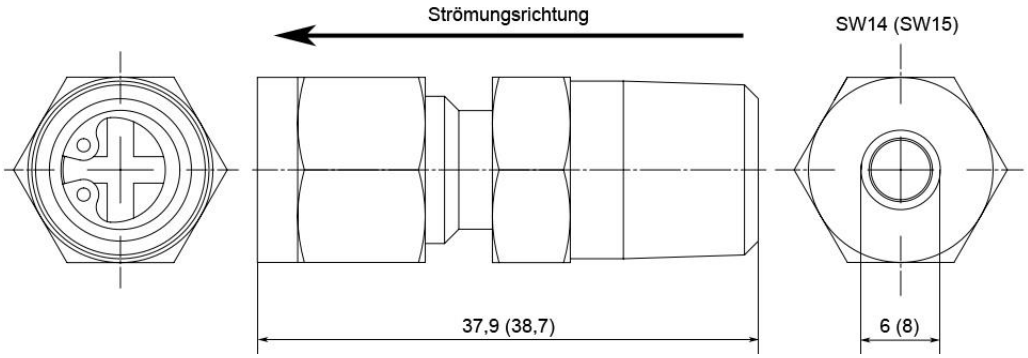
AGT-PSG GmbH & Co.KG | Weißkirchener Str. 3 | D-61449 Steinbach
Phone +49 (0) 6171 9750-0 | Fax +49 (0) 6171 9750-30 | info@perfectsamplegas.de

PSG Perfect Sample Gas

Technical Data

PSG Reduction Valve			
Part No.		80060195	80060675
Max. pressure sample gas outlet PSG Plus Probe	mbar	800	
Closing pressure at 180°C	bar abs.	> 1,8	
May. flow rate	Nl/hr	1000	
Max. pressure	bar abs.	7	
Connections		6mm – ¼“RT m	8mm – ¼“RT m
Max. media temperature	°C	+320	
Materials of media wetted parts		SS316 / SS316Ti	
Ambient temperature	°C	-40…+320	
Design			
Length	mm	37,9	38,7
Weight	kg	ca. 0,04	
Mounting		threaded joint	

Dimensions



Dimensions (in mm) / values for 8mm tube connection

AGT-PSG GmbH & Co.KG | Weißkirchener Str. 3 | D-61449 Steinbach
Phone +49 (0) 6171 9750-0 | Fax +49 (0) 6171 9750-30 | info@perfectsamplegas.de